



# Explore API Documentation

## SelfService\_Control\_CurrentProjectForecastDetail

Version 2.0

Last Modified: 10/31/2023



## Change Log

This changelog only contains significant or notable changes to the revision. Any editorial type changes or minor changes are not included.

| Revision | Change Date | Description                                       | Modified By        |
|----------|-------------|---|--------------------|
| 1.0      | 6/19/2019   | Initial draft                                     | Chase Denton       |
| 1.1      | 8/9/2022    | Updated data refresh time                         | Estefany Puc Nieto |
| 1.2      | 12/22/2022  | Updated pagination                                | Litzy Mora         |
| 2.0      | 3/22/2023   | Updated overview, relationships, validation, etc. | Sanjay Molugu      |

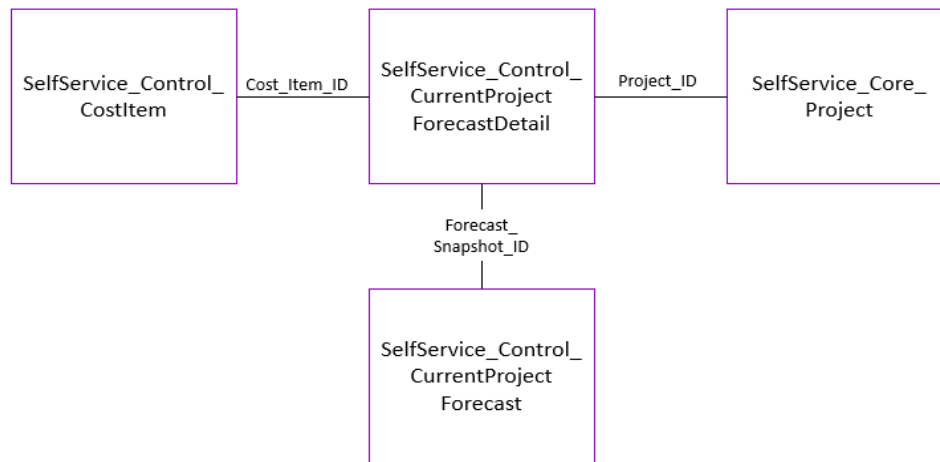
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## Overview

This API contains your project's current forecasted cost and man hours.

| From: Table   | To: Table  | Relationship                                     | Cardinality <sup>1</sup> | Comment   |
|---|--|--|--------------------------|-----------|
| SelfService_Control_CurrentProjectForecastDetail (CPFD) | Control_ForecastMethod<br>SelfService_Control_CurrentProjectForecastDetail (CPF) | CPFD.ForecastSnapshotID = CPF.ForecastSnapshotID | M:1                      |           |
| SelfService_Control_CurrentProjectForecastDetail (CPFD) | SelfService_Core_Project (CP)  | CPFD.ProjectId = CP.ProjectId                    | 1:1                      | ProjectId |
| SelfService_Control_CurrentProjectForecastDetail (CPFD) | SelfService_Core_CostItem (CI)   | CPFD.CostItemId = CI.CostItemId                  | 1:1                      |           |



## API Detail

|                                      |   |       |
|--------------------------------------|---|-------|
| Direction                            | From Project Suite  |       |
| Pagination                           | 5,000 Rows  |       |
| Frequency                            | All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large. |       |
| Trigger Method(s)                    | All default OData filters are supported   |       |
| Average Payload Size                 | Depends on date range selected  |       |
| API URL                              | <a href="https://api.ineight.com/reporting/v1/{tenantPrefix}/odata/SelfService_Control_CurrentProjectForecastDetail">https://api.ineight.com/reporting/v1/{tenantPrefix}/odata/SelfService_Control_CurrentProjectForecastDetail</a>                                     |       |
| Data Refresh/Delta/Incremental Loads | Data refresh within ~ 20 minutes. Data can be incrementally loaded after first full refresh.  |       |
| Replicate View                       | SelfService.vwControlCurrentProjectForecastDetail   |       |
| Project Suite                        | <b>Starting Version</b>   | 22.12 |
|                                      | <b>Ending Version</b>   |       |

<sup>1</sup> 1:M = One to Many, 1:1 = One to One, M:1 = Many to one

## Supported Filters

All default OData filters are supported by this API.

## Fields

| Name  | Type     | CharMaxLength | NumericPrecision | DatePrecision | Product | PK |
|---|----------|---------------|------------------|---------------|---------|----|
| <b>CostItemId</b>                             | bigint   | 8             | 19               | 0             | Control |    |
| <b>ProjectId</b>                              | bigint   | 8             | 19               | 0             | Core    |    |
| <b>Forecast_Final_Labor_Total_Cost</b>        | decimal  | 13            | 28               | 15            | Control |    |
| <b>Forecast_final_MHrs</b>                    | decimal  | 13            | 28               | 15            | Control |    |
| <b>Forecast_final_cost</b>                    | decimal  | 13            | 28               | 15            | Control |    |
| <b>Forecast_method</b>                        | nvarchar | 50            | 0                | 0             | Control |    |
| <b>IsActive</b>                               | bit      | 1             | 1                | 0             | Control |    |
| <b>ModifiedDate</b>                           | datetime | 8             | 23               | 3             | Control |    |
| <b>ForecastSnapshotId</b>                     | bigint   | 8             | 19               | 0             | Control |    |
| <b>ForecastConstEqpTotalCost</b>              | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastContingencyAllowancesTotalCost</b> | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastFixedFeesandServicesTotalCost</b>  | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastFOMRentedEquipmentTotalCost</b>    | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastGATotalCost</b>                    | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastMaterialsTotalCost</b>             | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastSubcontractTotalCost</b>           | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastSuppliesTotalCost</b>              | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastUndefinedTotalCost</b>             | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastDate</b>                           | date     | 3             | 10               | 0             | Control |    |
| <b>ForecastFinalUnitCost</b>                  | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastSnapshotDetailId</b>               | bigint   | 8             | 19               | 0             | Control |    |
| <b>ForecastFinalLaborCostPerManHour</b>       | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastMethodId</b>                       | bigint   | 8             | 19               | 0             | Control |    |
| <b>ForecastFinalManHourPerUnit</b>            | decimal  | 13            | 28               | 15            | Control |    |
| <b>ForecastFinalPF</b>                        | decimal  | 13            | 28               | 15            | Control |    |
| <b>DeltaFromStraightLine</b>                  | decimal  | 13            | 28               | 15            | Control |    |
| <b>CBForecastUnitCostGainLoss</b>             | decimal  | 13            | 28               | 15            | Control |    |
| <b>CBForecastFinalMHGLPercent</b>             | decimal  | 13            | 28               | 15            | Control |    |

|   |          |     |    |    |         |  |
|---|----------|-----|----|----|---------|--|
| <b>CBForecastGainLoss</b>               | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBForecastGainLossPercent</b>        | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBForecastFinalMHGainLossPercent</b> | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBManHourGainLossPercentToDate</b>   | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBForecastFinalManHourGainLoss</b>   | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBManHourGainLossToDate</b>          | decimal  | 13  | 28 | 15 | Control |  |
| <b>CreatedById</b>                      | bigint   | 8   | 19 | 0  | Control |  |
| <b>CreatedDate</b>                      | datetime | 8   | 23 | 3  | Control |  |
| <b>ModifiedById</b>                     | bigint   | 8   | 19 | 0  | Control |  |
| <b>ImprovementFactor</b>                | decimal  | 13  | 28 | 15 | Control |  |
| <b>CEForecastFinalCostGL</b>            | decimal  | 13  | 28 | 15 | Control |  |
| <b>CEForecastUnitCostGL</b>             | decimal  | 13  | 28 | 15 | Control |  |
| <b>CEForecastUnitCostGLPercent</b>      | decimal  | 13  | 28 | 15 | Control |  |
| <b>CEMHTotalGLPercent</b>               | decimal  | 13  | 28 | 15 | Control |  |
| <b>ForecastMHToDate</b>                 | decimal  | 13  | 28 | 15 | Control |  |
| <b>CEForecastFinalMHGL</b>              | decimal  | 13  | 28 | 15 | Control |  |
| <b>CEForecastCostGLPercent</b>          | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBForecastFinalMHGL</b>              | decimal  | 13  | 28 | 15 | Control |  |
| <b>CBForecastUnitCostGLPercent</b>      | decimal  | 13  | 28 | 15 | Control |  |
| <b>IsEnabled</b>                        | bit      | 1   | 1  | 0  | Control |  |
| <b>PlugColumnName</b>                   | nvarchar | 200 | 0  | 0  | Control |  |
| <b>ForecastCostChange</b>               | decimal  | 13  | 28 | 15 | Control |  |
| <b>ForecastFinalCostPrevious</b>        | decimal  | 13  | 28 | 15 | Control |  |
| <b>ForecastCostGLChange</b>             | decimal  | 13  | 28 | 15 | Control |  |

## Field Descriptions

| Name                                   | Description                              | Example              |
|--|--|----------------------|
| <b>CostItemId</b>                      | System generated id for Cost item        | 855226               |
| <b>ProjectId</b>                       | System generated Project id              | 11115                |
| <b>Forecast_Final_Labor_Total_Cost</b> | The final forecasted cost of labor       | 4456.300944000000000 |
| <b>Forecast_final_MHrs</b>             | The final forecasted amount of man hours | 84.240000000000000   |

|   |   |                             |
|---|---|-----------------------------|
| <b>Forecast_final_cost</b>                    | The forecasted final cost   | 7758.545462000000000        |
| <b>Forecast_method</b>                        | Selected technique or approach to arriving at the predicted final values              | Current estimate            |
| <b>IsActive</b>                               | When this field equals 0, then the record is no longer active and used in the project | Active = 1,<br>Inactive = 0 |
| <b>ModifiedDate</b>                           | The date the record was changed   | 2023-06-21 07:59:44.933     |
| <b>ForecastSnapshotId</b>                     | System generated code for the specific snapshot of a forecast                         | 13352                       |
| <b>ForecastConstEqpTotalCost</b>              | The final forecast cost of Equipment  | 3302.244518000000000        |
| <b>ForecastContingencyAllowancesTotalCost</b> | The final forecast cost of contingency allowed  | 0.000000000000000           |
| <b>ForecastFixedFeesandServicesTotalCost</b>  | The final forecast cost of fees and services  | 0.000000000000000           |
| <b>ForecastFOMRentedEquipmentTotalCost</b>    | The final forecast cost of rented Equipment   | 0.000000000000000           |
| <b>ForecastGATotalCost</b>                    | The final forecast cost of GA   | 0.000000000000000           |
| <b>ForecastMaterialsTotalCost</b>             | The final forecast cost of materials  | 0.000000000000000           |
| <b>ForecastSubcontractTotalCost</b>           | The final forecast cost of subcontract  | 0.000000000000000           |
| <b>ForecastSuppliesTotalCost</b>              | The final forecast cost of supplies   | 0.000000000000000           |
| <b>ForecastUndefinedTotalCost</b>             | The final forecast cost of GA   | 0.000000000000000           |
| <b>Forecast_Date</b>                          | The forecasted date   | 2021-08-01                  |
| <b>ForecastFinalUnitCost</b>                  | The final forecast cost of unit   | 215.515152000000000         |
| <b>ForecastSnapshotDetailId</b>               | System generated code for the specific snapshot detail of a forecast                  | 6353106                     |
| <b>ForecastFinalLaborCostPerManHour</b>       | The final forecast cost of Labor  | 52.900058689460000          |
| <b>ForecastMethodId</b>                       | System generated code for the specific method of a forecast                           | 8                           |
| <b>ForecastFinalManHourPerUnit</b>            | The final forecast of man hours per unit  | 2.340000000000000           |
| <b>ForecastFinalIPF</b>                       | The final forecast of PF  | 0.000000000000000           |
| <b>DeltaFromStraightLine</b>                  |   | 7758.545462000000000        |
| <b>CBForecastUnitCostGainLoss</b>             | Current budget forecast unit cost gain/loss   | -215.515151722220000        |
| <b>CBForecastFinalMHGLPercent</b>             | Current budget forecast total man hour gain/loss percent                              | 0.000000000000000           |

|   |  |                         |
|---|--|-------------------------|
| <b>CBForecastGainLoss</b>               | Current budget forecast gain/loss                          | -7758.545462000000000   |
| <b>CBForecastGainLossPercent</b>        | Current budget forecast gain/loss percent                  | 0.000000000000000       |
| <b>CBForecastFinalMHGainLossPercent</b> | Current budget forecast final man hour gain/loss percent   | 0.000000000000000       |
| <b>CBManHourGainLossPercentToDate</b>   | Current budget forecast man hour gain/loss percent to date | 0.000000000000000       |
| <b>CBForecastFinalManHourGainLoss</b>   | Current budget forecast final man hour gain/loss           | -84.240000000000000     |
| <b>CBManHourGainLossToDate</b>          | Current budget forecast man hour gain/loss to date         | 0.000000000000000       |
| <b>CreatedByld</b>                      | The user Id that created the record                        | 1                       |
| <b>CreatedDate</b>                      | The date the record was created                            | 2020-10-07 17:09:45.470 |
| <b>ModifiedByld</b>                     | The user Id that modified the record                       | -2                      |
| <b>ImprovementFactor</b>                |  | 0.000000000000000       |
| <b>CEForecastFinalCostGL</b>            | Current estimate forecast final cost gain/loss             | 0.000000815470000       |
| <b>CEForecastCostGLPercent</b>          | Current estimate forecast cost gain/loss percent           | 0.000000000110000       |
| <b>CBForecastFinalMHGL</b>              | Current budget forecast final man hours gain/loss          | -84.240000000000000     |
| <b>CBForecastUnitCostGLPercent</b>      | Current budget forecast unit cost gain/loss percent        | 0.000000000000000       |
| <b>IsEnabled</b>                        |  | 1                       |
| <b>PlugColumnName</b>                   | Name of Plug column  | NULL                    |
| <b>ForecastCostChange</b>               |  | 0.000000000000000       |
| <b>ForecastFinalCostPrevious</b>        | Previous month's final forecast cost                       | 7758.545462000000000    |
| <b>ForecastCostGLChange</b>             | The final forecast cost                                    | 0.000000000000000       |
| <b>CBForecastCostGLPrevious</b>         | Current budget forecast cost gain/loss percent previous    | -7758.545462000000000   |

## Sample

```
{
  "Cost_item_id":1,
  "Forecast_snapshot_id":16562,
  "Project_id":1,
  "Forecast_final_labor_total_cost":1888920.416123000000000,
  "Forecast_final_MHrs":6364.500000000000000,
  "Forecast_final_cost":3393075.529980000000000,
  "Forecast_method":"Rollup",
  "IsActive":true,
  "ModifiedDate":"2023-07-21T07:47:21.14Z",
  "ForecastConstEqpTotalCost":0.000000000000000,
  "ForecastContingencyAllowancesTotalCost":0.000000000000000,
  "ForecastFixedFeesandServicesTotalCost":0.000000000000000,
  "ForecastFOMRentedEquipmentTotalCost":0.000000000000000,
  "ForecastGATotalCost":0.000000000000000,
  "ForecastMaterialsTotalCost":0.000000000000000,
  "ForecastSubcontractTotalCost":1270868.620929000000000,
  "ForecastSuppliesTotalCost":198661.382762000000000,
  "ForecastUndefinedTotalCost":34625.110166000000000,
  "ForecastDate":"2023-07-01",
  "ForecastFinalUnitCost":3393075.529980000000000,
  "ForecastSnapshotDetailId":8162709,
  "ForecastFinalLab
```

```

orCostPerManHour":296.790072452350000,"ForecastMethodId":14,"ForecastFinalManHourPerUnit":6364.50000
000000000,"ForecastFinalPF":3.348888365150000,"DeltaFromStraightLine":-
25221433.965883782480000,"CBForecastUnitCostGainLoss":50269493.550019999900000,"CBForecastFinalMH
GLPercent":0.701393450310000,"CBForecastGainLoss":50269493.550019999900000,"CBForecastGainLossPer
cent":0.936770162370000,"CBForecastFinalMHGainLossPercent":0.000000000000000,"CBManHourGainLossPe
rcentToDate":0.000000000000000,"CBForecastFinalManHourGainLoss":14949.500000000000000,"CBManHour
GainLossToDate":0.000000000000000,"CreatedById":1,"CreatedDate":"2021-02-
10T18:05:27.15Z","ModifiedById":1,"ImprovementFactor":0.000000000000000,"CEForecastFinalCostGL":271294
.540020000000000,"CEForecastUnitCostGL":271294.540020000000000,"CEForecastUnitCostGLPercent":0.074
035791920000,"CEMHTotalGLPercent":0.422789252830000,"ForecastMHTToDate":3315.402905481150000,"CE
ForecastFinalMHGL":4661.801972469240000,"CEForecastCostGLPercent":0.074035791920000,"CBForecastFin
alMHGL":14949.500000000000000,"CBForecastUnitCostGLPercent":0.936770000000000,"IsEnabled":true,"Plug
ColumnName":null,"ForecastCostChange":0.000000000000000,"ForecastFinalCostPrevious":3393075.52998000
0000000,"ForecastCostGLChange":0.000000000000000,"CBForecastCostGLPrevious":50269493.550019999900
000}
    
```

## Data Validation

| Tasks                   |                       |                |  | Forecast <span>Created from Live fore...</span> |                     |                          |                             |                          |                         |                    | 2023/03/30 |
|-------------------------|-----------------------|----------------|--|---|---------------------|--------------------------|-----------------------------|--------------------------|-------------------------|--------------------|------------|
| CBS position            | Description           | WBS phase code |  | Forecast total cost                             | Forecast total MHrs | Forecast total MHrs/unit | Forecast total productivity | Forecast total unit cost | Forecast remaining cost | Forecast method    |            |
| 1                       | Financial Results ... | 1000           |  | \$ 1,938,167,430.12                             | 540,602.720         | 540,602.720              | 0.01                        | \$ 1,938,167,430.12      | \$ 1,861,995,236.31     | Rollup             |            |
| 1.1                     | DIRECT LABOR S...     | 1307           |  | \$ 3,685,944.46                                 | 10,363.031          | 10,363.031               | 0.36                        | \$ 3,685,944.46          | (\$ 84,859.57)          | Rollup             |            |
| 1.1.1                   | MAINTENANCE/C...      | 1308           |  | \$ 3,428,543.04                                 | 9,901.031           | 9,901.031                | 0.37                        | \$ 3,428,543.04          | (\$ 84,859.57)          | Rollup             |            |
| 1.1.1.1                 | MAINTENANCE           | 1309           |  | \$ 3,411,906.69                                 | 9,901.031           | 9,901.031                | 0.37                        | \$ 3,411,906.69          | (\$ 193.57)             | Rollup             |            |
| 1.1.1.1.1               | Maintain Equipme...   | 1310           |  | \$ 616,472.81                                   | 4,090.900           | 0.008                    | 0.91                        | \$ 1.19                  | \$ 0.00                 | Average perform... |            |
| 1.1.1.1.1.1             | 1312 - EQP1           | 1312           |  | \$ 2,795,433.88                                 | 5,810.131           | 0.052                    | 0.00                        | \$ 25.13                 | (\$ 193.57)             | Rollup             |            |
| 1.1.1.1.1.1.1           | Off Road Diesel       | 1314           |  | \$ 431,090.93                                   | 1,935.131           | 0.019                    | 0.00                        | \$ 4.30                  | (\$ 193.57)             | Average perform... |            |
| 1.1.1.1.1.1.1.1         | Gas price             | 1315           |  | \$ 142,525.08                                   | 1,939.000           | 0.090                    | 0.00                        | \$ 6.60                  | \$ 0.00                 | Average perform... |            |
| 1.1.1.1.1.1.1.1.1       | Equipment Rent        | 1321           |  | \$ 2,221,817.87                                 | 1,936.000           | 0.001                    | 0.00                        | \$ 1.04                  | \$ 0.00                 | Average perform... |            |
| 1.1.1.1.1.1.1.1.1.1     | CONSTRUCTION ...      | 1318           |  | \$ 16,636.35                                    | 0.000               | 0.000                    | 0.00                        | \$ 16,636.35             | (\$ 84,666.00)          | Rollup             |            |
| 1.1.1.1.1.1.1.1.1.1.1   | Construction Equi...  | 1319           |  | \$ 16,636.35                                    | 0.000               | 0.000                    | 0.00                        | \$ 16,636.35             | (\$ 84,666.00)          | Rollup             |            |
| 1.1.1.1.1.1.1.1.1.1.1.1 | OSR 40tn Crane - ...  | 1323           |  | \$ 16,636.35                                    | 0.000               | 0.000                    | 0.00                        | \$ 2,834.13              | (\$ 84,666.00)          | Manual (EAC)       |            |